

This Page Is Inserted by IFW Operations
and is not a part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

IMAGES ARE BEST AVAILABLE COPY.

As rescanning documents *will not* correct images,
please do not report the images to the
Image Problem Mailbox.

Amendments to the Claims:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Previously Presented) An electro-optical device, comprising:
a plurality of data lines and scan lines that are arranged in a matrix manner;
a plurality of electro-optical elements that are disposed correspondingly to intersections of the data lines and the scan lines;
a data line driving circuit connected to the data lines and capable of driving all of the data lines; and
an auxiliary data line driving circuit selectively connected to a portion of all of the data lines capable of driving the portion of all of the data lines independently from the data line driving circuit, the portion of the data lines being connected to both the data line driving circuit and the auxiliary data line driving circuit.
2. (Canceled)
3. (Previously Presented) The electro-optical device according to Claim 1, at least one of the data line driving circuit and the auxiliary data line driving circuit including a decoder.
4. (Previously Presented) The electro-optical device according to Claim 1, at least one of the data line driving circuit and the auxiliary data line driving circuit including a shift register.
5. (Previously Presented) The electro-optical device according to Claim 1, at least one of the data line driving circuit and the auxiliary data line driving circuit including a latch circuit.

6. (Previously Presented) The electro-optical device according to Claim 1, at least one of the data line driving circuit and the auxiliary data line driving circuit including a D/A converter circuit.

7. (Original) The electro-optical device according to Claim 1, wherein, of the data lines, only a data line that is located in a specific region of a screen is selectively connected to the auxiliary data line driving circuit.

8. (Previously Presented) The electro-optical device according to Claim 1, three dots including an electro-optical element capable of emitting red, an electro-optical element capable of emitting green, and an electro-optical element capable of emitting blue comprise one pixel to enable a color display, and only a data line corresponding to a particular color of the three colors is selectively connected to the auxiliary data line driving circuit.

9. (Previously Presented) The electro-optical device according to Claim 8, only a data line which corresponds to the particular color and which is located in a specific region of a screen being selectively connected to the auxiliary data line driving circuit.

10. (Previously Presented) The electro-optical device according to Claim 1, a full-dot display mode and a character display mode being switched so that the data line driving circuit is enabled when the full-dot display mode is selected and the auxiliary data line driving circuit is enabled when the character display mode is selected.

11. (Previously Presented) The electro-optical device according to Claim 1, further comprising a scan line driving circuit capable of driving the scan lines, and an auxiliary scan line driving circuit capable of driving the scan lines independently from the scan line driving circuit,

all of the scan lines being connected to the scan line driving circuit, and only a portion of the scan lines being selectively connected to the auxiliary scan line driving circuit.

12. (Previously Presented) The electro-optical device according to Claim 11, at least one of the scan line driving circuit and the auxiliary scan line driving circuit including a decoder.

13. (Previously Presented) The electro-optical device according to Claim 11, at least one of the scan line driving circuit and the auxiliary scan line driving circuit including a shift register.

14. (Original) The electro-optical device according to Claim 11, wherein, of the scan lines, only a scan line that is located in a specific region of a screen is selectively connected to the auxiliary scan line driving circuit.

15. (Original) The electro-optical device according to Claim 11, wherein a full-dot display mode and a character display mode can be switched so that the data line driving circuit and the scan line driving circuit are enabled when the full-dot display mode is selected and the auxiliary data line driving circuit and the auxiliary scan line driving circuit are enabled when the character display mode is selected.

16. (Previously Presented) The electro-optical device according to Claim 10, the number of grayscale levels being smaller when the character display mode is selected than when the full-dot display mode is selected.

17. (Previously Presented) The electro-optical device according to Claim 10, a frame frequency being lower when the character display mode is selected than when the full-dot display mode is selected.

18. (Previously Presented) The electro-optical device according to Claim 10, all pixels being reset altogether when the full-dot display mode changes to the character display mode.

19. (Previously Presented) The electro-optical device according to Claim 1, the data lines being driven by switching between the data line driving circuit and the auxiliary data line driving circuit in a period during which scan lines of one screen are being driven.

20. (Currently Amended) A method of driving an electro-optical device comprising a plurality of data lines and scan lines that are arranged in a matrix manner, and a plurality of electro-optical elements that are disposed correspondingly to intersections of the data lines and the scan lines, the method comprising:

switching between a data line driving circuit and an auxiliary data line driving circuit to drive the data lines, the data line driving circuit being capable of driving all of the data lines, the auxiliary data line driving circuit being capable of driving a selective portion of the data lines independently from the data line driving circuit, the portion of the data lines being connected to both of the data line driving circuit and the auxiliary data line driving circuit.

21. (Previously Presented) The method according to Claim 20, all of the data lines being connected to the data line driving circuit, and only a portion of the data lines being selectively connected to the auxiliary data line driving circuit.

22. (Previously Presented) The method according to Claim 20, at least one of the data line driving circuit and the auxiliary data line driving circuit including a decoder.

23. (Previously Presented) The method according to Claim 20, at least one of the data line driving circuit and the auxiliary data line driving circuit including a shift register.

24. (Previously Presented) The method according to Claim 20, at least one of the data line driving circuit and the auxiliary data line driving circuit including a latch circuit.

25. (Previously Presented) The method according to Claim 20, at least one of the data line driving circuit and the auxiliary data line driving circuit including a D/A converter circuit.

26. (Original) The method according to Claim 20, wherein, of the data lines, only a data line that is located in a specific region of a screen is selectively connected to the auxiliary data line driving circuit.

27. (Previously Presented) The method according to Claim 20, three dots including an electro-optical element capable of emitting red, an electro-optical element capable of emitting green, and an electro-optical element capable of emitting blue comprise one pixel to enable a color display, and only a data line corresponding to a particular color of the three colors is selectively connected to the auxiliary data line driving circuit.

28. (Previously Presented) The method according to Claim 27, only a data line which corresponds to the particular color and which is located in a specific region of a screen being selectively connected to the auxiliary data line driving circuit.

29. (Previously Presented) The method according to Claim 20, a full-dot display mode and a character display mode being switched so that the data line driving circuit is enabled when the full-dot display mode is selected and the auxiliary data line driving circuit is enabled when the character display mode is selected.

30. (Previously Presented) The method according to Claim 20, further comprising switching between a scan line driving circuit and an auxiliary scan line driving circuit to drive the scan lines, the scan line driving circuit to which all of the scan lines are connected being capable of driving the scan lines, the auxiliary scan line driving circuit to which only a portion of the scan lines is selectively connected being capable of driving the portion of the scan lines independently from the scan line driving circuit.

31. (Previously Presented) The method according to Claim 30, wherein at least one of the scan line driving circuit and the auxiliary scan line driving circuit including a decoder.

32. (Previously Presented) The method according to Claim 30, at least one of the scan line driving circuit and the auxiliary scan line driving circuit including a shift register.

33. (Previously Presented) The method according to Claim 30, wherein, of the scan lines, only a scan line that is located in a specific region of a screen is selectively connected to the auxiliary scan line driving circuit.

34. (Previously Presented) The method according to Claim 30, a full-dot display mode and a character display mode being switched so that the data line driving circuit and the scan line driving circuit are enabled when the full-dot display mode is selected and the auxiliary data line driving circuit and the auxiliary scan line driving circuit are enabled when the character display mode is selected.

35. (Previously Presented) The method according to Claim 29, the number of grayscale levels being smaller when the character display mode is selected than when the full-dot display mode is selected.

36. (Previously Presented) The method according to Claim 29, a frame frequency being lower when the character display mode is selected than when the full-dot display mode is selected.

37. (Previously Presented) The method according to Claim 29, all pixels being reset altogether when the full-dot display mode changes to the character display mode.

38. (Previously Presented) The method according to Claim 20, the data lines being driven by switching between the data line driving circuit and the auxiliary data line driving circuit in a period during which scan lines of one screen are being driven.

39. (Previously Presented) An organic electroluminescent display, comprising:
a plurality of row lines and data lines that are arranged in a matrix manner;
a plurality of organic electroluminescent elements that are disposed correspondingly to intersections of the row lines and the data lines;

a data line driving circuit capable of driving the data lines;
a row driving circuit capable of driving the row lines; and
an auxiliary data line driving circuit, independently from the data line driving circuit, that drives a selective portion of the data lines, the auxiliary data line driving circuit including a decoder,

the data lines are connected to the data line driving circuit and only the selective portion of the data lines are connected to both the auxiliary data line driving circuit and the data line driving circuit.

40. (Previously Presented) An organic electroluminescent display, comprising:
a plurality of row lines and data lines that are arranged in a matrix manner;
a plurality of organic electroluminescent elements that are disposed correspondingly to intersections of the row lines and the data lines;

a data line driving circuit capable of driving the data lines;
a row driving circuit capable of driving the row lines; and
an auxiliary data line driving circuit, independently from the data line driving circuit, that drives a selective portion of the data lines, the auxiliary data line driving circuit including a shift register,

the data lines are connected to the data line driving circuit and only the selective portion of the data lines are connected to the auxiliary data line driving circuit and the data line driving circuit.

41. (Previously Presented) The organic electroluminescent display device according to Claim 39, the data line driving circuit including a shift register.

42. (Previously Presented) The organic electroluminescent display device according to Claim 39, the row driving circuit including a decoder.

43. (Original) The organic electroluminescent display device according to Claim 39, wherein, of the data lines, only a data line that is located in a specific region of a screen is selectively connected to the auxiliary data line driving circuit.

44. (Previously Presented) The organic electroluminescent display device according to Claim 39, three dots including an organic electroluminescent element capable of emitting red, an organic electroluminescent element capable of emitting green, and an organic electroluminescent element capable of emitting blue comprise one pixel to enable a color display, and only a data line corresponding to a particular color of the three colors is selectively connected to the auxiliary data line driving circuit.

45. (Previously Presented) The organic electroluminescent display device according to Claim 44, the particular color being green.

46. (Previously Presented) The organic electroluminescent display device according to Claim 44, only a data line which corresponds to the particular color and which is located in a specific region of a screen being selectively connected to the auxiliary data line driving circuit.

47. (Previously Presented) The organic electroluminescent display device according to Claim 39, a full-dot display mode and a character display mode being switched so that the data line driving circuit is enabled when the full-dot display mode is selected and the auxiliary data line driving circuit is enabled when the character display mode is selected.

48. (Previously Presented) The organic electroluminescent display device according to Claim 39, further comprising an auxiliary row line driving circuit, independent from the row driving circuit, that drives the row lines, the auxiliary row driving circuit including a decoder, wherein all of the row lines are connected to the row driving circuit and only a portion of the row lines is selectively connected to the auxiliary row driving circuit.

49. (Previously Presented) The organic electroluminescent display device according to Claim 39, further comprising an auxiliary row driving circuit, independent from the row driving circuit, that drives the row lines, the auxiliary row driving circuit including a shift register, wherein all of the row lines are connected to the row driving circuit and only a portion of the row lines is selectively connected to the auxiliary row driving circuit.

50. (Original) The organic electroluminescent display device according to Claim 48, wherein, of the row lines, only a row line that is located in a specific region of a screen is selectively connected to the auxiliary row driving circuit.

51. (Previously Presented) The organic electroluminescent display device according to Claim 49, a full-dot display mode and a character display mode being switched so that the data line driving circuit and the row driving circuit are enabled when the full-dot display mode is selected and the auxiliary data line driving circuit and the auxiliary row driving circuit are enabled when the character display mode is selected.

52. (Previously Presented) The organic electroluminescent display device according to Claim 47, the number of grayscale levels being smaller when the character display mode is selected than when the full-dot display mode is selected.

53. (Previously Presented) The organic electroluminescent display device according to Claim 47, a frame frequency being lower when the character display mode is selected than when the full-dot display mode is selected.

54. (Previously Presented) The organic electroluminescent display device according to Claim 47, all pixels being reset altogether when the full-dot display mode changes to the character display mode.

55. (Previously Presented) The method according to Claim 20, the data lines being driven by switching between the data line driving circuit and the auxiliary data line driving circuit in one horizontal scan period.

56. (Previously Presented) An electronic apparatus comprising a display device for displaying data,

said display device comprising an electro-optical display device using the electro-optical device according to Claim 1, or the organic electroluminescent display device comprising: a plurality of row lines and a plurality of data lines which are arranged in a matrix manner; organic electroluminescent elements which are disposed correspondingly to intersections of the row lines and the data lines; a data line driving circuit capable of driving the data lines; a row driving circuit capable of driving the row lines; and

an auxiliary data line driving circuit, independent from the data line driving circuit, that drives the data lines, the auxiliary data line driving circuit including a decoder, all of the data lines being connected to the data line driving circuit and only a portion of the data lines being selectively connected to the auxiliary data line driving circuit.

57. (Previously Presented) The electro-optical device according to Claim 15, the number of grayscale levels being smaller when the character display mode is selected than when the full-dot display mode is selected.

58. (Previously Presented) The electro-optical device according to Claim 15, a frame frequency being lower when the character display mode is selected than when the full-dot display mode is selected.

59. (Previously Presented) The electro-optical device according to Claim 15, all pixels being reset altogether when the full-dot display mode changes to the character display mode.

60. (Previously Presented) The method according to Claim 34, the number of grayscale levels being smaller when the character display mode is selected than when the full-dot display mode is selected.

61. (Previously Presented) The method according to Claim 34, a frame frequency being lower when the character display mode is selected than when the full-dot display mode is selected.

62. (Previously Presented) The method according to Claim 34, all pixels being reset altogether when the full-dot display mode changes to the character display mode.

63. (Previously Presented) The organic electroluminescent display device according to Claim 40, the data line driving circuit including a shift register.

64. (Previously Presented) The organic electroluminescent display device according to Claim 40, the row driving circuit including a decoder.

65. (Previously Presented) The organic electroluminescent display device according to Claim 40, wherein, of the data lines, only a data line that is located in a specific region of a screen is selectively connected to the auxiliary data line driving circuit.

66. (Previously Presented) The organic electroluminescent display device according to Claim 40, three dots including an organic electroluminescent element capable of emitting red, an organic electroluminescent element capable of emitting green, and an organic electroluminescent element capable of emitting blue comprise one pixel to enable a color display, and only a data line corresponding to a particular color of the three colors is selectively connected to the auxiliary data line driving circuit.

67. (Previously Presented) The organic electroluminescent display device according to Claim 66, the particular color being green.

68. (Previously Presented) An electro-optical device, comprising:
a plurality of data lines and scan lines that are arranged in a matrix manner;
a plurality of electro-optical elements that are disposed correspondingly to intersections of the data lines and the scan lines;
a data line driving circuit capable of driving the data lines;

an auxiliary data line driving circuit capable of driving the data lines independently from the data line driving circuit, a number of grayscale levels displayed by using the auxiliary data line driving circuit being smaller than those of the data line driving circuit.

69. (Previously Presented) The electro-optical device according to claim 68, the auxiliary data line driving circuit controlling two grayscale.

70. (Previously Presented) The electro-optical device according to claim 68, the auxiliary data line driving circuit including a decoder.

71. (Previously Presented) The electro-optical device according to claim 1, the plurality of electro-optical elements being between the data line driving circuit and the auxiliary data line driving circuit.

72. (Previously Presented) The organic electroluminescent display according to claim 39, the plurality of organic electroluminescent elements being between the data line driving circuit and the auxiliary data line driving circuit.

73. (Previously Presented) The organic electroluminescent display according to claim 40, the plurality of organic electroluminescent elements being between the data line driving circuit and the auxiliary data line driving circuit.